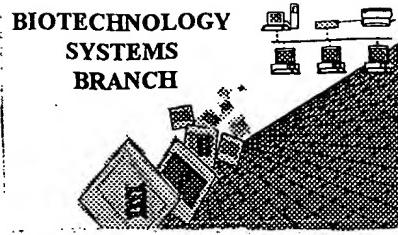


## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/980,845  
Source: PCT/09  
Date Processed by STIC: 5/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

BEST AVAILABLE COPY

**Raw Sequence Listing Error Summary**

<b><u>ERROR DETECTED</u></b>	<b><u>SUGGESTED CORRECTION</u></b>	<b><u>SERIAL NUMBER:</u></b> <u>09/980,845</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input checked="" type="checkbox"/> Variable Length	Sequence(s) <u>4</u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/980,845

DATE: 05/21/2002  
TIME: 15:25:08

Input Set : A:\seqlist.txt  
Output Set: N:\CRF3\05212002\I980845.raw

*Does Not Comply  
Corrected Diskette Needed*

*pp 1,3-5*

3 <110> APPLICANT: Handfield, Martin  
 4       Brady, Jeannine  
 5       Progulske-Fox, Ann  
 6       Hillman, Jeffrey D.  
 8 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of  
 9       a Host  
 11 <130> FILE REFERENCE: MBHB00-505B  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/980,845  
 C--> 14 <141> CURRENT FILING DATE: 2002-04-08  
 16 <150> PRIOR APPLICATION NUMBER: 60/147,551  
 17 <151> PRIOR FILING DATE: 1999-08-06  
 19 <150> PRIOR APPLICATION NUMBER: PCT/US00/21340  
 20 <151> PRIOR FILING DATE: 2000-08-04  
 22 <160> NUMBER OF SEQ ID NOS: 20  
 24 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

777 <210> SEQ ID NO: 20  
 778 <211> LENGTH: 54  
 779 <212> TYPE: PRT  
 780 <213> ORGANISM: Actinobacillus actinomycetemcomitans  
 782 <400> SEQUENCE: 20  
 783 Met Val Gly Lys Phe Ile Val Ile Glu Gly Leu Glu Gly Ala Gly Lys  
 784     1               5               10               15  
 786 Ser Thr Ala His Gln Cys Val Val Asp Thr Leu Lys Thr Leu Gly Val  
 787       20           25               30  
 789 Gly Glu Val Ile Ser Thr Arg Glu Pro Gly Gly Thr Pro Val Gly Gly  
 790       35           40               45  
 792 Lys Ala Thr Pro Ser His  
 793       50  
 E--> 799 *(2)* *delete*

*see following page for more error*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,845

DATE: 06/02/2002

TIME: 19:10:38

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05312002\1980845.raw

120 <212> TYPE: DNA  
121 <213> ORGANISM: Actinobacillus actinomycetemcomitans  
122 <220> FEATURE:  
124 <221> NAME/KEY: misc\_feature  
125 <222> LOCATION: (554)  
126 <223> OTHER INFORMATION: N stands for any nucleotide.  
128 <220> FEATURE:  
129 <221> NAME/KEY: misc\_feature  
130 <222> LOCATION: (596)  
131 <223> OTHER INFORMATION: N stands for any nucleotide.  
133 <400> SEQUENCE: 3  
134 gatcaaactg gtggcgcaag ggcagcgcgt agcaaattta cccgatatt  
135 gcgcgtcggc aacggcatgg tagggcgacg ccgtggttt aaccaggcc  
136 gcgcattttt aagctaaaac accatcttgg cattcaggga ttttatccc  
137 ttttgtcctg cggtccggtg ccagattttt ggcgacatca ttactgaaat  
138 aacctttta agaaaaataac atgatgaaat taaactgtat ttaaaaaat  
139 ccacccgact tttcttagcg gggtgttcct caaattcaag tgccgcgacc  
140 agcaggcgaa ttctgttacg gctgtgaatc ccactgcgggt gtacagttaa  
141 tggataactt caacgattat gtgaattttt taaaaggtaa agcagcggcc  
142 ctgcccacgt attgaatgca caaaataata ttaatttat tcaaaaatcc  
143 acgatcaaca agcnngcaga attcgcaagc gtgatccaaa tgccccggcc  
144 ccgaacggca cgaccaatta cttaaatcggt gtattaacca agaataaaagg  
145 gaagcacgtt attggaaaca attgcgcag cttggaaaatg cttcaaaagaa  
146 ccgaaaaattt atctgttagc cttgtggggc atggagagta gctttggctt  
147 aattacgatg tggttatccac cttagccact cttgcgtttt acggacgccc  
148 ttccagcaaag aattcatcgcc cgccatgaaa atgctacagc gcgatc  
151 <210> SEQ ID NO: 4  
152 <211> LENGTH: 507  
153 <212> TYPE: DNA  
154 <213> ORGANISM: Actinobacillus actinomycetemcomitans  
156 <220> FEATURE:  
157 <221> NAME/KEY: misc\_feature  
158 <222> LOCATION: (4)  
159 <223> OTHER INFORMATION: N stands for any nucleotide.  
161 <220> FEATURE:  
162 <221> NAME/KEY: misc\_feature  
163 <222> LOCATION: (9)  
164 <223> OTHER INFORMATION: N stands for any nucleotide.  
166 <220> FEATURE:  
167 <221> NAME/KEY: misc\_feature  
168 <222> LOCATION: (21)  
169 <223> OTHER INFORMATION: N stands for any nucleotide.  
171 <220> FEATURE:  
172 <221> NAME/KEY: misc\_feature  
173 <222> LOCATION: (23)  
174 <223> OTHER INFORMATION: N stands for any nucleotide.  
176 <220> FEATURE:  
177 <221> NAME/KEY: misc\_feature  
178 <222> LOCATION: (29)

file:///C:/Crif3/Outhold/VsrI980845.htm

6/2/02

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/980,845

DATE: 06/02/2002  
TIME: 19:10:38

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\05312002\I980845.raw

179 <223> OTHER INFORMATION: N stands for any nucleotide.  
181 <220> FEATURE:  
182 <221> NAME/KEY: misc\_feature  
183 <222> LOCATION: (32)  
184 <223> OTHER INFORMATION: N stands for any nucleotide.  
186 <220> FEATURE:  
187 <221> NAME/KEY: misc\_feature  
188 <222> LOCATION: (35)..(36)  
189 <223> OTHER INFORMATION: N stands for any nucleotide.  
191 <220> FEATURE:  
192 <221> NAME/KEY: misc\_feature  
193 <222> LOCATION: (39)  
194 <223> OTHER INFORMATION: N stands for any nucleotide.  
196 <220> FEATURE:  
197 <221> NAME/KEY: misc\_feature  
198 <222> LOCATION: (42)  
199 <223> OTHER INFORMATION: N stands for any nucleotide.  
201 <220> FEATURE:  
202 <221> NAME/KEY: misc\_feature  
203 <222> LOCATION: (45)  
204 <223> OTHER INFORMATION: N stands for any nucleotide.  
206 <220> FEATURE:  
207 <221> NAME/KEY: misc\_feature  
208 <222> LOCATION: (49)  
209 <223> OTHER INFORMATION: N stands for any nucleotide.  
211 <220> FEATURE:  
212 <221> NAME/KEY: misc\_feature  
213 <222> LOCATION: (52)  
214 <223> OTHER INFORMATION: N stands for any nucleotide.  
216 <220> FEATURE:  
217 <221> NAME/KEY: misc\_feature  
218 <222> LOCATION: (58)  
219 <223> OTHER INFORMATION: N stands for any nucleotide.  
221 <220> FEATURE:  
222 <221> NAME/KEY: misc\_feature  
223 <222> LOCATION: (61)..(62)  
224 <223> OTHER INFORMATION: N stands for any nucleotide.  
226 <220> FEATURE:  
227 <221> NAME/KEY: misc\_feature  
228 <222> LOCATION: (65)  
229 <223> OTHER INFORMATION: N stands for any nucleotide.  
231 <220> FEATURE:  
232 <221> NAME/KEY: misc\_feature  
233 <222> LOCATION: (69)  
234 <223> OTHER INFORMATION: N stands for any nucleotide.  
236 <220> FEATURE:  
237 <221> NAME/KEY: misc\_feature  
238 <222> LOCATION: (73)  
239 <223> OTHER INFORMATION: N stands for any polynucleotide.

"N" can only  
represent a  
single nucleotide

(see item 5 on  
Error Summary  
sheet)

6/2/02

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/980,845

DATE: 06/02/2002  
TIME: 19:10:38

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\05312002\I980845.raw

241 <220> FEATURE:  
242 <221> NAME/KEY: misc\_feature  
243 <222> LOCATION: (97)  
244 <223> OTHER INFORMATION: N stands for any nucleotide.  
246 <220> FEATURE:  
247 <221> NAME/KEY: misc\_feature  
248 <222> LOCATION: (102)  
249 <223> OTHER INFORMATION: N stands for any nucleotide.  
251 <220> FEATURE:  
252 <221> NAME/KEY: misc\_feature  
253 <222> LOCATION: (138)  
254 <223> OTHER INFORMATION: N stands for any nucleotide.  
256 <220> FEATURE:  
257 <221> NAME/KEY: misc\_feature  
258 <222> LOCATION: (457)  
259 <223> OTHER INFORMATION: N stands for any nucleotide.  
261 <220> FEATURE:  
262 <221> NAME/KEY: misc\_feature  
263 <222> LOCATION: (459)  
264 <223> OTHER INFORMATION: N stands for any nucleotide.  
266 <220> FEATURE:  
267 <221> NAME/KEY: misc\_feature  
268 <222> LOCATION: (467)  
269 <223> OTHER INFORMATION: N stands for any nucleotide.  
271 <400> SEQUENCE: 4  
W--> 272 ttgntaccnt agccgctgac nanaactanc angcnntgna tnatntcgna tnattaanat 60  
W--> 273 nngcnaggng can~~c~~agctta cctttgccga cggttcnctg tntgaaagcg ccattcgcaa 120  
W--> 274 agtgcgggt gaggcggnga aaattcactc acttggtgcg gaaggcaatg atgtgggatt 180  
275 gaaagcccatt catggcgggt ggataaaagcg ttatTTTta tgccggcaga tgccTTTct 240  
276 gcgttaaatg cgttattaga cgaaaatttt tgcgtatcagg acacagcagt ttacggcgag 300  
277 aatTTTgtgg ttcccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaatc 360  
278 ggctcctgcg tggtgaggt gtcgcagccg cgtaaacctt gtgagcgcctt atcgaaaaat 420  
W--> 279 accaataatc cgaacacgca acaaaccgtg tacgtnncng ctggtnngc tggtatgtgc 480  
280 cggtgttacc ccaaggggga aattcaa 507  
283 <210> SEQ ID NO: 5  
284 <211> LENGTH: 1087  
285 <212> TYPE: DNA  
286 <213> ORGANISM: Actinobacillus actinomycetemcomitans  
288 <220> FEATURE:  
289 <221> NAME/KEY: misc\_feature  
290 <222> LOCATION: (622)  
291 <223> OTHER INFORMATION: N stands for any nucleotide.  
293 <220> FEATURE:  
294 <221> NAME/KEY: misc\_feature  
295 <222> LOCATION: (642)  
296 <223> OTHER INFORMATION: N stands for any nucleotide.  
298 <220> FEATURE:  
299 <221> NAME/KEY: misc\_feature  
300 <222> LOCATION: (661)

*S-*

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/980,845

DATE: 06/02/2002  
TIME: 19:10:39

*FJT*

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\05312002\I980845.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 566,625,627,636,650,656,661,672,681,720,723  
Seq#:3; N Pos. 554,596  
Seq#:4; N Pos. 4,9,21,23,29,32,35,36,39,42,45,49,52,58,61,62,65,69,73,97  
Seq#:4; N Pos. 102,138,457,459,467  
Seq#:5; N Pos. 622,642,661,669,685,690,700  
Seq#:6; N Pos. 609,614,651,665  
Seq#:7; N Pos. 532,630,696,710,722,725  
Seq#:8; N Pos. 538  
Seq#:12; N Pos. 131,151,170,178,194,199,209  
Seq#:18; Xaa Pos. 43,50,59,66,69